

650 Radio

GENERAL	650-1	Dash-board speaker, removing and installing.....	650-3
RADIO SERVICE	650-1	Mirror triangle speaker, removing and installing.....	650-3
Radio, removing and installing.....	650-1	Radio connectors.....	650-4
Front speaker (left footwell), removing and installing.....	650-2		
Front speaker (right footwell), removing and installing.....	650-2		
Rear speaker(s), removing and installing ...	650-3		

TABLE

a. Radio Connector Terminal Designation 1991 and later	650-4
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GENERAL

This section covers the BMW factory installed sound system including radio and speaker removal, radio connectors and terminal designations. The antenna is incorporated into the rear window defogger.

RADIO SERVICE

Radio, removing and installing

CAUTION—

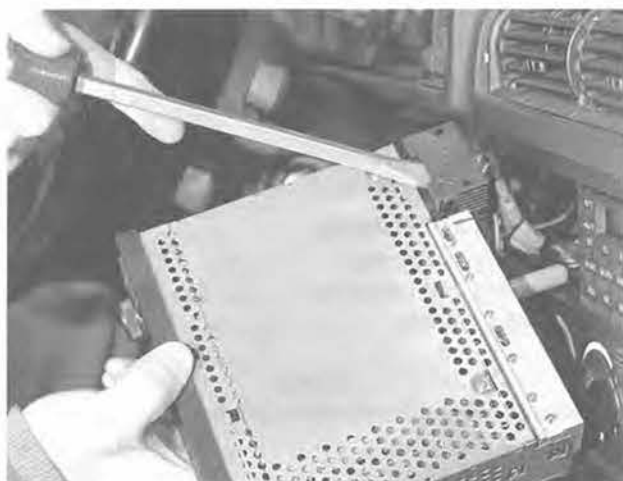
- Before beginning work on the radio or sound system verify that the radio is an original equipment BMW radio and that the wiring harness has not been modified.
- Aftermarket radios, amplifiers, speakers, etc. are beyond the scope of this manual. Servicing of aftermarket sound equipment should be referred to an authorized agent of the equipment in question.
- Do not remove radio or disconnect the battery without obtaining the anti-theft code.



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- Swing open small square covers at left and right sides of radio.
- Using hex key, turn screw counterclockwise to loosen.
- Pull radio out of instrument panel opening.
- Remove connector(s) from rear of radio.
- Installation is reverse of removal.

650-2 RADIO

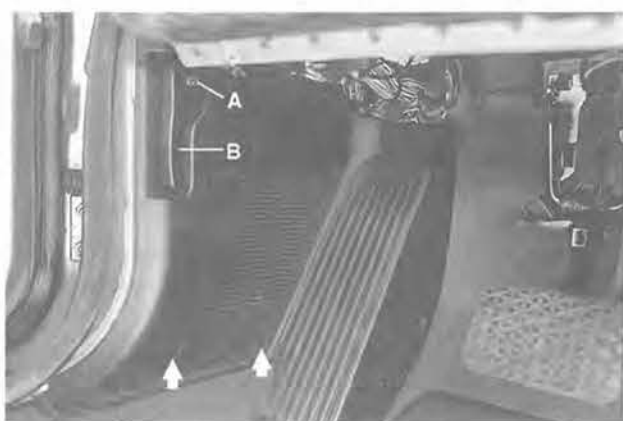


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- ◀ On 1991 and later cars, disconnect the large harness connector using a screwdriver. Pry up on connector until it slides up and disconnects from radio.

Front speaker (left footwell), removing and installing

- Remove pedal cluster trim panel and lower left dash panel. See 513 Interior Trim.
- Pull off door seal from edge of speaker cover.
- ◀ Remove hood release latch cover, if applicable, and remove bolt (A) from center of hood latch release lever. Remove lever (B) and turn retainers 90° (arrows).
- Rotate trim panel retainers 90° degrees and pull out. Remove speaker trim panel.
- Disconnect speaker connector and remove nuts holding speaker to cover.
- Installation is reverse of removal.



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Front speaker (right footwell), removing and installing

- Remove door seal at edge of speaker cover and turn retainer screws 90°.
- Pull speaker trim panel away from body and then pull panel back towards rear of car. Pull off speaker connector and remove nuts retaining speaker to panel.
- Installation is reverse of removal.

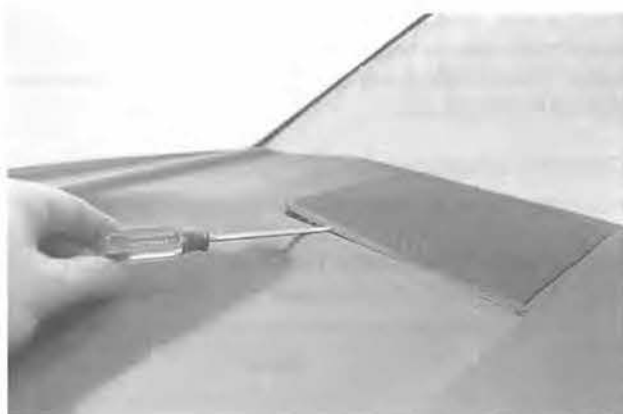
Rear speaker(s), removing and installing

- Remove speaker cover by prying up edge.

NOTE—

Pry up on rear edge of cover first to avoid breaking plastic retainer tabs.

- Remove mounting screws and partially remove speaker(s).
- Disconnect speaker connector(s) and remove speaker(s).
- Installation is reverse of removal.



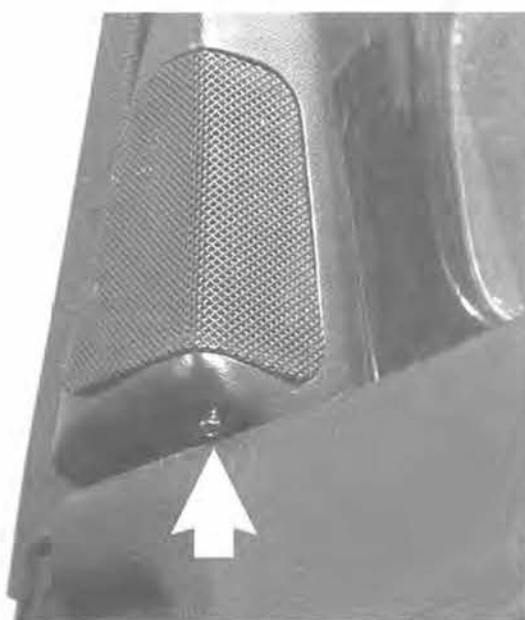
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Dashboard speaker, removing and installing

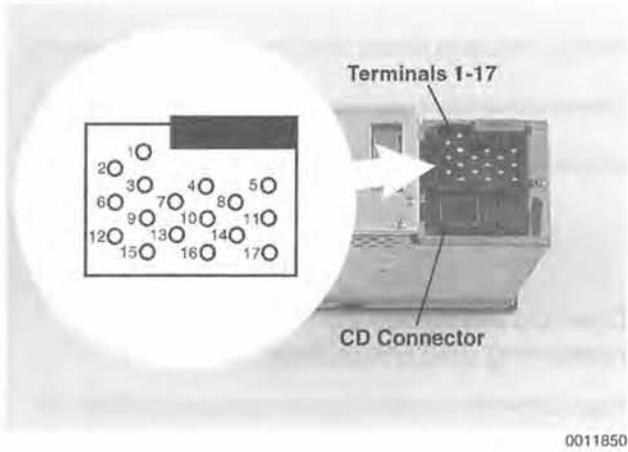
- Place screwdriver under edge of cover and pry cover off.
- Remove two screws and lift up speaker.
- Disconnect speaker connector and remove loudspeaker.
- Installation is reverse of removal.

Mirror triangle speaker, removing and installing

- Remove mirror triangle speaker mounting screw (arrow).
- Pull speaker out, disconnect speaker wires and remove speaker.
- Installation is reverse of removal.



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Radio connectors

Table a lists radio connector pinouts for radios installed in later model vehicles covered by this manual. Early model vehicles (1989-1990) have the various terminals identified right on the connector.

- Connector designations on 1991 and later radio.
- Use with Table a to identify the various terminals.

Table a. Radio Connector Terminal Designation 1991 and later

Connector Terminal	Signal
1	Speaker, left front +
2	Speaker, right front +
3	Speaker, left rear +
4	Telephone mute feature
5	Positive, Terminal R
6	Front speaker, left
7	I-bus connection
8	Speaker, left front
9	Constant positive, Terminal 30
10	Speedometer signal for speed-sensitive volume control
11	Speaker, right front
12	Speaker, left rear
13	Illumination terminal 58G
14	Speaker, right rear
15	Ground Terminal 31
16	Automatic antenna or window antenna amplifier or premium sound system amplifier
17	Not assigned

